# Open Air Current Sense Resistors



- OAR Series
- TCR's to ±20ppm/°C
- Power ratings of 1, 3, & 5W @ 85°C
- Resistance range from  $2.5m\Omega$  to  $100m\Omega$
- Open air design maximizes thermal performance
- Welded copper leads minimize effects from solder wicking and provide true 1% performance



#### Features:

- Welded construction
- Flameproof
- Inductance less than 10 nanohenries
- Solderable copper leads (60/40)

- **Applications:**
- Current sensing
- Feedback
- Low inductance
- · Surge and pulse

#### **Electrical Data**

Part Number	Power Rating @ 85°C (watts)	Resistance Range (mΩ)	Tolerance (±%)	TCR (±ppm/°C)	Inductance (nH)
OAR-1	1.0	3, 5, 10, *20, *25, 50	1, 2¹, 5	20	<10
OAR-3	3.0	2.5, 5, 10, 15, 20, 25, *30, 50, 100			
OAR-5	5.0	3, 5, 10, *15, *20, *25, *50			

Notes:

 $\pm 2\%$  tolerance available <0.005m $\Omega$ 

\* denotes resistance values that may have longer lead times than other values listed

\* Please contact factory for resistance values not listed

## **Environmental Data**

Load Life (1000 hours @ 25°C)	∆ <b>R/R &lt;1%</b>
Moisture (no load for 1000 hours)	∆ <b>R/R &lt;1%</b>
Temperature Cycling (-40°C to +125°C for 1000 cycles)	∆ <b>R/R &lt;1%</b>
Operating Temperature	-40°C to +125°C





# Open Air Current Sense Resistors



### Physical Data



## Ordering Data

